

Amendment to the Claims

Claims 1-79 (Canceled)

80. (Currently amended) A mouse whose genome comprises comprising a heterozygous a disruption in a TRP gene, said TRP gene encoding mRNA corresponding to the cDNA sequence of SEQ ID NO:47 encoded by T243 or a naturally occurring allelic variation thereof.

81. (Currently amended) The A knockout mouse of claim 80 wherein said mouse is comprising a homozygous for said disruption in a target DNA sequence encoding a TRP, wherein said disruption inhibits the production of the wild type TRP.

82. (Canceled)

83. (Canceled)

84. (Canceled)

85. (Currently amended) The knockout mouse of claim 80 or claim 81 wherein the phenotype of the mouse exhibits, relative to a wild-type control mouse, comprises reduced weight relative to a wild type mouse which does not contain said heterozygous or said homozygous disruption.

86. (Currently amended) The knockout mouse of claim 85 wherein said reduced weight is at least about 15% relative to said control mouse.

87. (Currently amended) The knockout mouse of claim 80 or 81 wherein the phenotype of said mouse exhibits, relative to a wild-type control mouse, comprises decreased length relative to a wild type mouse which does not contain said heterozygous or said homozygous disruption.

88. (Currently amended) The knockout mouse of claim 87 wherein said decreased length is at least about 10% relative to said control mouse.

89. (Currently amended) The knockout mouse of claim 81 wherein the phenotype of said mouse exhibits, relative to a wild-type control mouse, comprises a decreased ratio of weight to length relative to a wild type mouse which does not contain said heterozygous or said homozygous disruption.

90. (Currently amended) The knockout mouse of claim 89 wherein said decreased ratio is at least about 20% relative to said control mouse.

91. (Currently amended) The knockout mouse of claim 81 wherein the phenotype of said mouse exhibits, relative to a wild-type control mouse, comprises

- a. reduced weight;
- b. decreased length; and
- c. decreased ratio of weight to length,
~~relative to a wild type mouse which does not contain said heterozygous or said homozygous disruption.~~

92. (Previously presented) The knockout mouse of claim 81, wherein the phenotype of the mouse comprises symptoms associated with cartilage disease.

93. (Previously presented) The knockout of claim 81, wherein the phenotype of the mouse comprises symptoms associated with bone disease.

94. (Previously presented) The knockout mouse of claim 81, wherein the phenotype of the mouse comprises symptoms associated with kidney disease.

Claims 95-104 (Canceled).